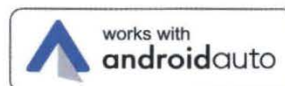# BE920WCPA USER MANUAL

## Wireless Apple CarPlay & Android Auto™
### BLUETOOTH® | DOUBLE-DIN
### MP3-COMPATIBLE AM/FM RECEIVER
FEATURING 7" (178 mm) CAPACITIVE TOUCHSCREEN

**BOSS AUDIO SYSTEMS**
**ELITE**

Works with Apple CarPlay

works with android auto

Bluetooth®

SD™

Wi Fi CERTIFIED

# BOSS®
## AUDIO SYSTEMS

*Thank you for Choosing BOSS Audio Systems!*

*IMPORTANT! Fill Out And Keep For Your Records.*

| (i) | **IMPORTANT** |
| --- | --- |
| | Record the serial number of the product: |
| | **Model:** |
| | **Serial Number:** |
| | **Date of Purchase:** |
| | The serial number is located on the top part of the chassis. |

# Contents

# Contents

# Important

This symbol with "WARNING" is intended to alert the user to the presence of critical instructions/procedures. Failure to observe the instructions/procedures can result in injury, death, damage to the product and/or property.

⚠️ **WARNING**

This symbol with "CAUTION" is intended to alert the user to the presence of important instructions/procedures. Failure to observe the instructions/procedures can result in injury or damage to the product and/or property.

⚠️ **CAUTION**



Works with
Apple CarPlay



works with
androidauto



Bluetooth®

Use of the Apple CarPlay logo means that this user interface meets Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this product with iPhone may affect wireless performance.

iPhone® is a trademark of Apple Inc., registered in the U.S. and other countries.
Apple CarPlay is a trademark of Apple Inc.

Android Auto is a trademark of Google LLC.

The *Bluetooth®* word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by BOSS Audio Systems is under license. Other trademarks and trade names are those of their respective owners.

# Caution

## Precautions

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES: Do not turn up the volume so high that you can't hear what's around you.

Use caution or temporarily discontinue use in potentially hazardous situations.

Do not operate mobile video equipment while driving a motorized vehicle – safe driving and safety consideration of others should always be your highest priority.

Set your volume control at a low setting, then slowly increase the sound until you can hear it comfortably without distortion, or ear discomfort.

In the event you should notice smoke, strange noises or odor from this product, or any other abnormal signs, immediately turn off the power and consult your dealer or the nearest authorized **BOSS AUDIO SYSTEMS** Service Center.

Using this product in this condition may result in permanent damage to the system.

## Installation Precautions

BOSS AUDIO SYSTEMS does not recommend to install the product yourself.

We recommend to have it professionally installed by a certified professional.

Always consult with a professional installer .

**Do not attempt to install or service this product by yourself**. Installation or servicing of this product by persons without professional training and experience in electronic equipment and motorized vehicle accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.
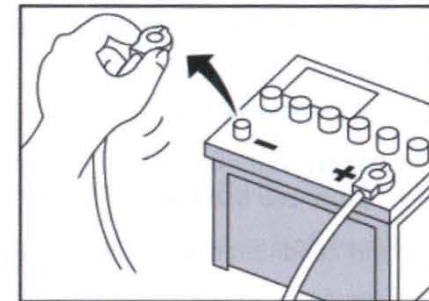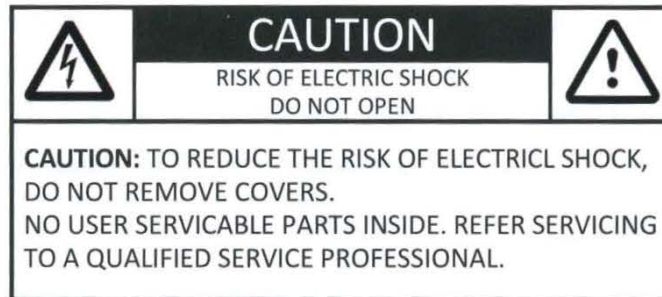
Refer any repairs to a qualified BOSS AUDIO SYSTEMS Service Center.

# Caution

## Before Installing

To avoid potential shorts in the electrical system, be sure to disconnect the (–) battery cable before installation.

Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

**CAUTION:** TO REDUCE THE RISK OF ELECTRICL SHOCK, DO NOT REMOVE COVERS.
NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO A QUALIFIED SERVICE PROFESSIONAL.

## Product Safety

It is against Federal and Local laws for video to be viewed by the driver while the vehicle is in motion. This video product was intended to be used with the parking brake safety feature. Video cannot be seen without the proper parking brake powered connection. Tampering or disabling this feature will void any and all warranty. Please check with a professional installer to have your product installed properly.

---

**Important Note**

**Due to ongoing enhancements, example images on screens may slightly differ from actual product.**

# Caution

## Images and Video

Watching video while driving is against Federal, State, and Local laws.

Drive safely, know and obey traffic rules. Watching this screen and making selections while driving can lead to a serious accident.

Check surroundings for safety while camera images are displayed.

Do not use features of this product while driving if it cannot be operated safely and legally in your location. Before operation of smartphone Apps accessible from this device, read safety instructions in your Owner's Manual. When using navigation Apps stay alert to observe real world conditions.

## About this manual

To entirely understand how to properly use your new BOSS Audio Systems product, it is recommended to read this user manual, and keep it in a safe place for future reference.

-Read the entire manual

-Keep the manual

-Follow all instructions

-Clean with a dry cloth only

-Do not use or operate near water

-Do not defeat any safety features

## California Residents (Proposition 65)

This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

# Basic Product Operation

## What comes in the box

Hardware

Qty 1    BE920WCPA

Qty 1    Trim Ring

Qty 1    Mounting Hardware Set

        -M5 x 6mm Bolts (8)

        -Brackets (2)

Connections

Qty 1    Wire Harness

Qty 1    Hands-free Microphone

Qty 1    GPS antenna
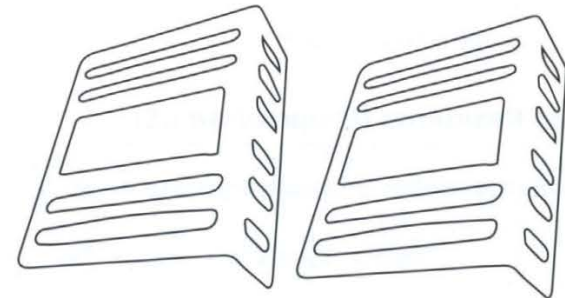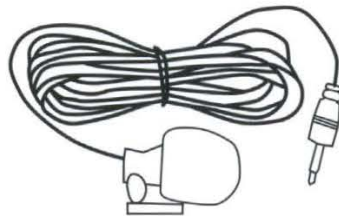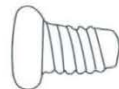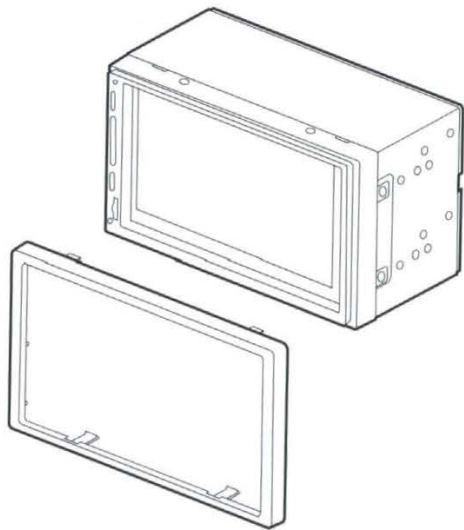
# Basic Product Operation

## Front Detail
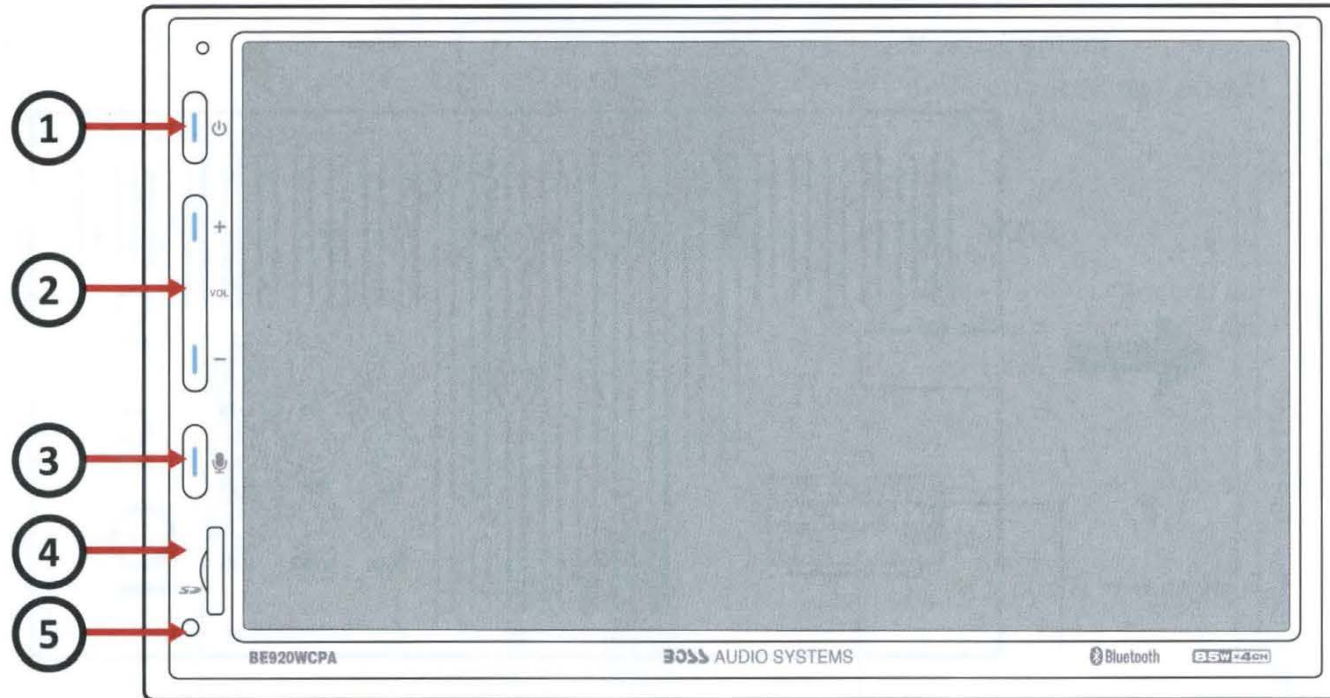
| | | |
|---|---|---|
| (1) Power/Mute Button | (2) Volume Control | (3) Voice Control |
| (4) Micro SD Card Slot Cover | (5) Reset Button | |

## Rear Detail

Microphone Input

Front Camera Input

Rear Camera Input

USB Play/ Charging

Apple CarPlay  Android Auto

USB2

USB1

Wire Harness Connector

Fuse (15A)

Pre-Amp Audio Outputs

FL     FR     L-IN

RL     RR     R-IN

SUB1     SUB2     V-IN

Audio/Video Inputs

WIFI

GPS

RADIO

The fixed Wi-Fi/ Bluetooth antenna

Connects to the supplied GPS antenna

FM/AM Antenna Jack
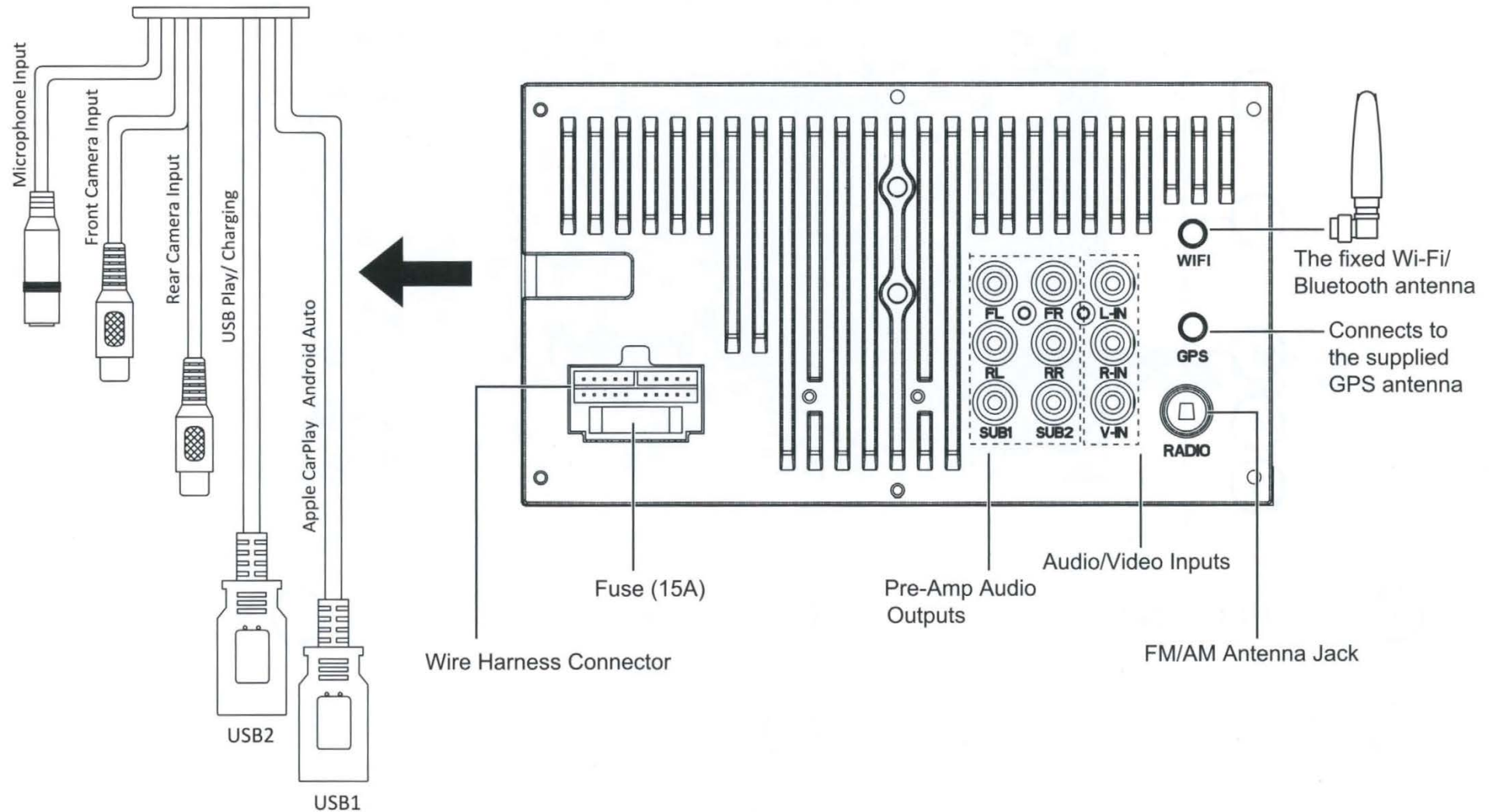
# Basic Product Operation

## Product Basics

### Power On / Standby

1. Press briefly to turn the unit on.
2. Press and hold to switch the unit to standby.
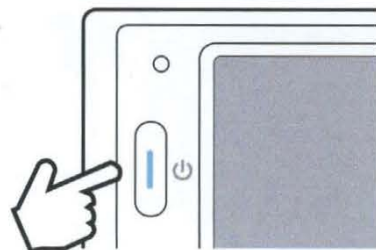
### Voice Control

1. Press to activate then say your command.
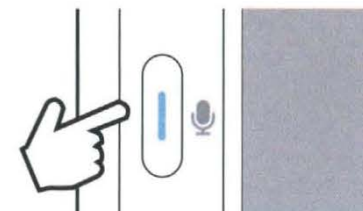
### (i) NOTE

Apple CarPlay or Andorid Auto must be active to enable voice control.

### Volume Control

1. Press briefly to adjust volume.
2. Press and hold for quick volume adjustment.
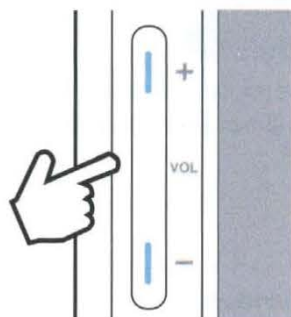
### Mute

1. Press briefly to mute volume.
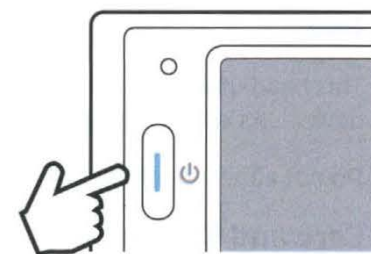
# Basic Product Operation

## Using and Caring for the Touchscreen
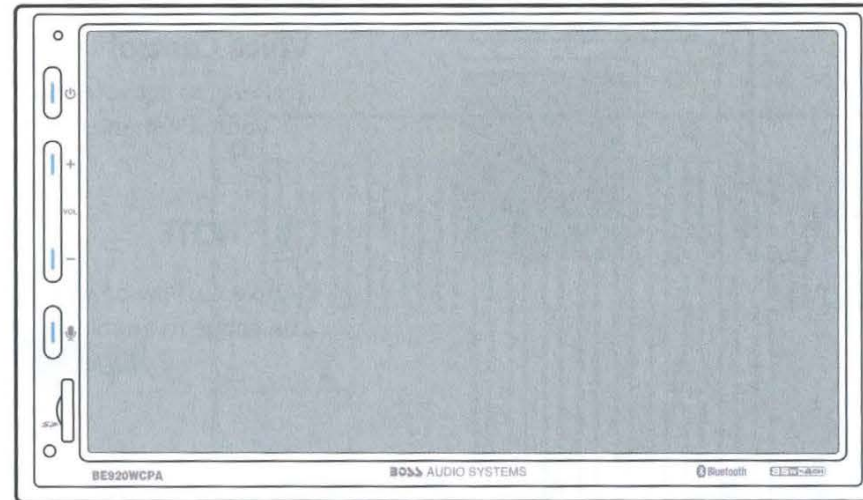


## Use:

This head unit utilizes a Capacitive Touchscreen, the same type that is used on high-end mobile devices. It should be used for and cared for like that type of device. As with all capacitive type technology, if your fingers are wet or sweaty, it will not function properly.

Do not allow any sharp objects to come in contact with the screen glass.

## Care and Cleaning:

To clean the screen, use a dry microfiber type cloth to clean. Do not use ammonia, window cleaner, or any other type of household chemicals to clean the screen. Abrasives should not be used at all.

# Basic Product Operation

## Product Setup (Date & Time)

### Setup Option A: CarPlay Method

Connect your iPhone to this unit through Apple CarPlay in a wired or wireless way.

After CarPlay connection, date and time will automatically set.

Time zone must be set manually.

The default is Pacific Time zone.



General

↓

Time Zone
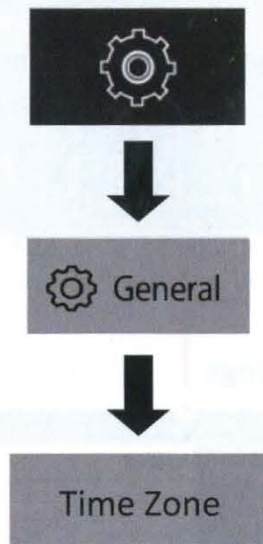
### Setup Option B: Date and Time



↓

General

↓

Date & Time
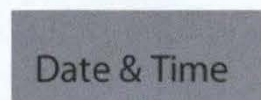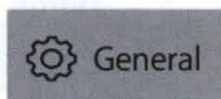
### Additional Setup

General > Language

Audio > EQ, Other Audio Settings

Display > Illumination, Brightness

# Basic Product Operation

## Navigating the Menus

### Android Auto



### CarPlay



### Camera

CAMERA 12:15AM

NO SIGNAL DETECTED

CHECK YOUR CABLE CONNECTIONS AND MAKE SURE YOUR CAMERA IS CONNECTED AND POWERED ON

### Media

USB 06:08PM

Solea
Gregory James
California Audio Show 2014
105/111
00:23 04:32

### Home

BOSS / ELITE 11:45 PM

Apple CarPlay | Android Auto | Streaming | Camera
Tuner | Handsfree | USB | SD | AV In

### EQ

EQ 02:07AM

EQ
0 0 0 0 0 0 0 0 0 0
Off
32hz 63hz 125hz 250hz 500hz 1khz 2khz 4khz 8khz 16khz

### Tuner

Tuner 12:08AM

Stereo | 1/35 MHz | DX
104.30
FM

### Hands-free

HANDSFREE 12:06PM

Device
History
Contact
Dial

1 | 2 ABC | 3 DEF
4 GHI | 5 JKL | 6 MNO
7 PQRS | 8 TUV | 9 WXYZ
* | 0 | #

### AV IN

AV INPUT 11:45PM

NO SIGNAL DETECTED

CHECK YOUR CABLE CONNECTIONS AND MAKE SURE YOUR VIDEO IS CONNECTED

### Settings

SETTINGS 12:21AM

| General | Language | > |
| Audio | Time Zone | > |
| Display | Date & Time | > |
| Bluetooth | Daylight Saving Time | |
| Camera | System Tone | |
| | Power OFF Delay | |

# Apple CarPlay

### (i) Note

Apple CarPlay usage is limited while driving. Functions, content, and usability is determined by the App provider(s). Controls will vary with each App that is available for CarPlay.

For more details visit:

**http://www.apple.com/ios/carplay**

### ⚠ WARNING

Familiarize yourself with your Local and State laws regarding mobile devices.

Certain functions of an iPhone might be prohibited and or illegal while driving in your location.

When in doubt, park the vehicle and engage the parking brake first before performing the function(s).

### Wired Connection via USB Port

Connect your iPhone to the USB port (labeled "**Apple CarPlay**") with a lightning cable (not included) to enable CarPlay connection.

For the initial USB connection, you will be prompted to enable wireless CarPlay on your iPhone.

### Wireless Connection

Enable Wi-Fi and Bluetooth on your iPhone.

For first-time use of wireless CarPlay between your iPhone and this unit, you need to allow wireless CarPlay use via either of the pairing:
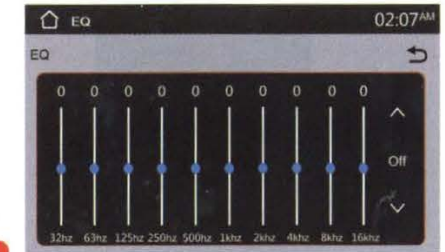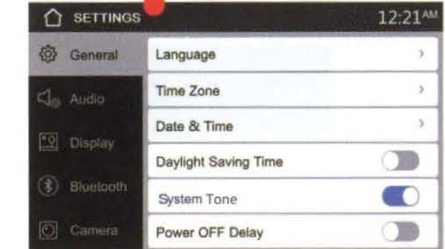
- Bluetooth pairing. On your iPhone, go to **Settings** > **Bluetooth** then select "**BOSS AUDIO BE920WCPA**" for pairing. Enable wireless CarPlay when prompted on your iPhone.

- Initial USB port connection for CarPlay.

**To enable CarPlay connection**

Bluetooth connection will disable wireless CarPlay connection.

On the home screen, go to **Handsfree > Device** then touch the paired iPhone name to enable wireless CarPlay connection.

**To enter CarPlay menu**

Touch the "Apple CarPlay" icon on the home screen.

### (i) Note

If you do not allow wireless CarPlay use during first-time CarPlay connection, wireless CarPlay will be disabled on your iPhone. To use wireless CarPlay later, you need to enable CarPlay on your iPhone (go to **Settings > General > CarPlay** > paired device then enable its CarPlay).

When connecting to CarPlay, Bluetooth on this unit will be automatically disabled. In this case, you can make hands-free calls and stream music through CarPlay.

### Gestures & Control

Basic controls, but not limited to:

**Touch** 👆     **Swipe** ⬅ 👆 ➡

**Dragging** ⬅ 👆 ➡
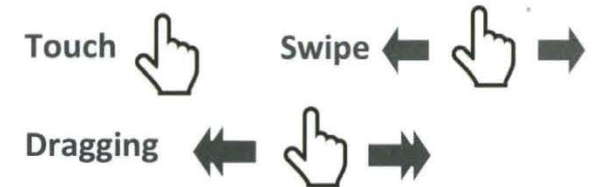
Other gestures and controls might differ from apps.

### (i) Note

Volume control is handled exclusively by this unit.

# Apple CarPlay

## CarPlay Display Setup

1. Using your iPhone:

**Settings > General > CarPlay**

2. **Touch and Hold** each App icon to move.

To remove an App, **Touch** ( — )

16:33      .ıll 4G 🔋

⟨ General     **CarPlay**

If your car supports wireless CarPlay, press and hold the voice control button on your steering wheel to start CarPlay setup.

MY CAR

**BOSS AUDIO BE920WCPA**      ⟩

## (i) NOTE

Only Apps with the ( — ) icon can be removed from CarPlay.
Only Apps with the ( + ) icon can be added in carplay.

16:33      .ıll 4G 🔋

⟨ Back     Customize     Reset

Add and organize apps to show in CarPlay's home screen.

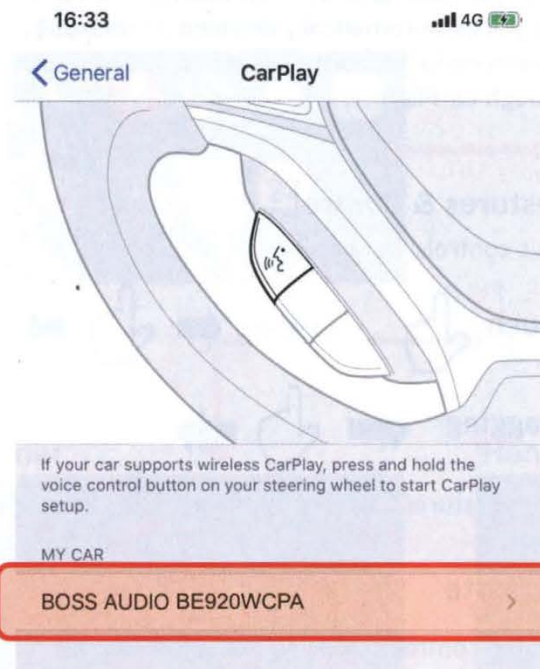INCLUDE

| | |
|---|---|
| 📞 Phone | ≡ |
| 🎵 Music | ≡ |
| 🗺 Maps | ≡ |
| 💬 Messages | ≡ |
| ᆒ Now Playing | ≡ |
| 🎛 Radio | ≡ |
| ⊖ 📖 Audiobooks | ≡ |
| 18 Calendar | ≡ |
| ⚙ Settings | ≡ |
| ⊖ 🎙 Podcasts | ≡ |

MORE APPS

⊕ 🎵 NetEase Music
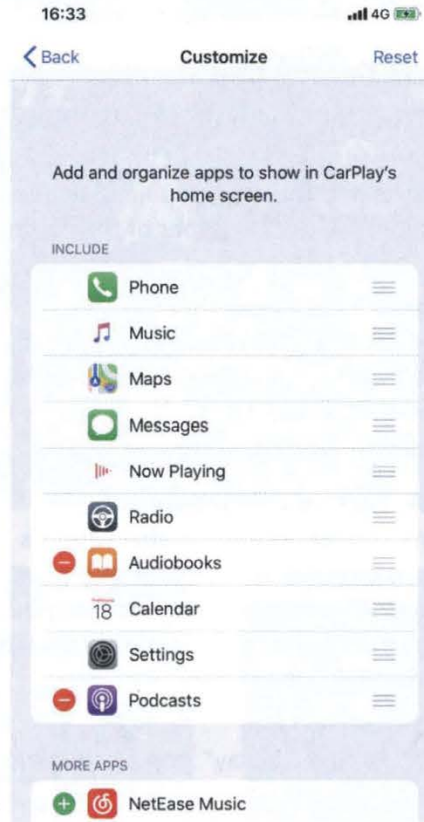
## How to Disable Apps

1. Using your iPhone:

**Settings > Notifications >** *App to Disable*

16:50      .ıll 4G 🔋

⟨ Notifications     **Messages**

Allow Notifications     🟢

ALERTS

| Lock Screen | Notification Center | Banners |
|---|---|---|
| ✓ | ✓ | ✓ |

Banner Style     Temporary ⟩

Sounds     Note ⟩

Badges     🟢

Show in CarPlay     🟢

OPTIONS

Show Previews     When Unlocked (Default) ⟩

Notification Grouping     Automatic ⟩

Repeat Alerts     Once ⟩
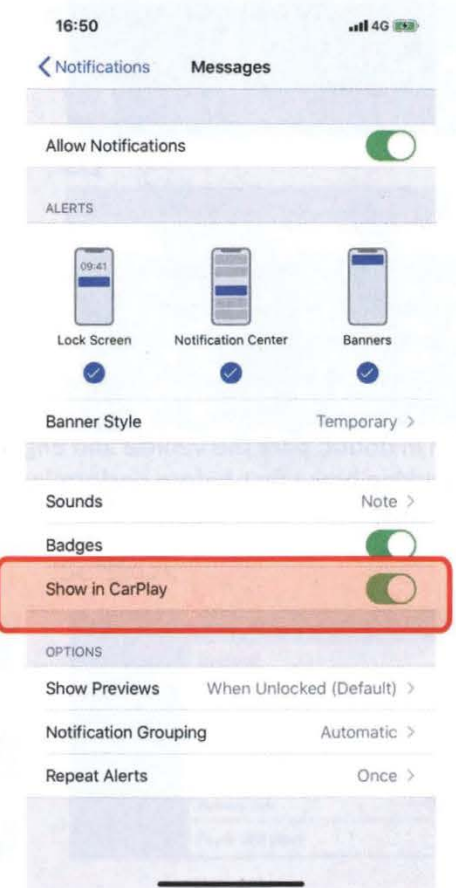
# Android Auto

## Using Android Auto

### ⓘ Note

Android Auto usage is limited while driving.

Functions, content, and usability is determined by the App provider(s).

Controls will vary with each App that is available for Android Auto.

For more details visit:

**https://www.android.com/auto/**

### ⚠ WARNING

Familiarize yourself with your Local and State laws regarding mobile devices.

Certain functions of the mobile device might be prohibited and or illegal while driving in your location.

When in doubt, park the vehicle and engage the parking brake first before performing the function(s).

### ⓘ NOTE

To complete the setup properly, the parking brake status wire must be connected.

### ⚠ WARNING

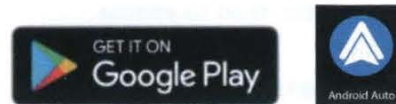For your safety, the setup process **MUST** be accomplished while the vehicle is **Parked and Parking Brake Engaged**.

### Android Auto App

For Android 9.0 or earlier, download and install the Android Auto app from Google Play. For smartphone with Android 10.0 or later, plug in your phone and follow the prompts on your phone to accept the permissions that Android Auto requires.



### Minimum System Requirements
- Wired connection: Android 6.0
- Wireless connection: Android 11.0

For a list of compatible devices:

**https://www.android.com/auto/**

### Updating Related Apps

During the first start up and setup of the Android Auto app, the Maps, Music, Google apps will install/update automatically.

### Wired Connection via USB Port

Connect your phone to the USB port (labeled "**Android Auto**") with a USB cable (not included) to enable Android Auto connection.

For the initial USB connection, you will be prompted to connect wireless Android Auto on this unit.

### Wireless Connection

Enable Wi-Fi and Bluetooth on your Phone.

For first-time use of wireless Android Auto between your phone and this unit, you need to allow Android Auto use via either of the pairing:

- Bluetooth pairing. On your phone, go to **Settings > Bluetooth** then select "**BOSS AUDIO BE920WCPA**" for pairing.
- Initial USB port connection for Android Auto.

**To enable Android Auto connection**
Bluetooth connection will disable wireless Android Auto connection.
On the home screen, go to **Handsfree > Device** then touch the paired phone name to enable wireless Android Auto connection.

**To enter Android Auto menu**
Touch the "**Android Auto**" icon on the home screen.

When connecting to Android Auto, Bluetooth on this unit will be automatically disabled.

### Hands-Free Menu

Touch 

ℹ️ **NOTE**

Enabling CarPlay or Android Auto will disabling Bluetooth connection.

Compatibility with all mobile devices is not guaranteed. Please read through the user guide of the mobile device.

⚠️ **CAUTION**

For your safety, the setup process should be accomplished while the vehicle is parked and parking brake engaged.

### First time Pairing

Pair this product with your Bluetooth device before you can make hands-free calls or stream music through Bluetooth.

Bluetooth pairing can be made through initial connection to CarPlay or Android Auto. Or follow the instructions below to complete it.

On your mobile device, go to **Settings > Bluetooth** then select "**BOSS AUDIO BE920WCPA** for pairing.
Follow the prompts on your mobile device and this product to complete Bluetooth pairing.

### Enable Bluetooth Connection

When CarPlay or Android Auto is connected to this product, Bluetooth connection will be disabled. In this case, you need to enable Bluetooth connection.

On the home screen, go to **Handsfree > Device** then touch ✱. Tap the icon again to disconnect Bluetooth connection.



For wired CarPlay or Android Auto connection, unplug the connection cable for use of Bluetooth connection.

When Bluetooth is enabled, CarPlay or Android Auto will be disabled. You can now make hands-free calls or stream music through Bluetooth (on the home screen, touch the "**Streaming**" icon to access Bluetooth streaming).

### Phonebook and History

To **Download Phonebook**:
1. Touch **Contact > Download**

To **Download History**
1. Touch **History > Download**

### Device Status

Battery and Cellular Strength is displayed on the top right of the Home menu.

GATT Profile support is required on the mobile device.

# Bluetooth®

## Hands-Free

### Calling

**Making & Receiving Calls**

1. Dialing from the dial pad

    **Touch** 📞 to make call

2. Contact

    **Touch** the contact name

3. History

    Choose the name

To **End** a call    **Touch** ☎

To **Mute** a call   **Touch** 🔇

### Dial pad

To use the dial pad while on a call

**Touch** ⌨

### Searching History

**Swipe Up** or **Down** to search

### History

1. Outgoing Call ⬅

2. Incoming Call ➡

3. Missed Call ↙

### Private Mode

When a call needs to be transferred to the mobile device:

**Touch** (✱) to switch the mobile device

**Touch** (📱) to return to hands-free mode

### Searching Contacts

Contacts must be downloaded to search.

1. **Touch** (🔍)

2. **Enter** the **Contact Name,** then [ OK ]

On the home screen, go to ⚙ (**Settings**) > **Bluetooth** to access the following options.

Connection: **ON**

Auto Connect: **ON**

Auto Answer: **OFF**

Device Name: **BOSS AUDIO BE920WCPA**

Clear Records

### Audio Streaming

To play media through Bluetooth, the mobile device must be **Paired and Connected** to the BE920WCPA.
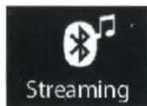
If CarPlay or Android Auto is connected, you need to enable Bluetooth on this product (on the home screen, go to **Handsfree > Device** then tap ⁂).

For wired CarPlay or Android Auto connection, unplug the connection cable for use of Bluetooth connection.

1. **Touch**   Streaming

The music will play automatically.

### Track Control

1. Play/Pause  ▷ ‖

2. Track Fwd / Rev  ◁ ▷|

3. **Swipe** to Fwd/Rev  👆

### (i) Note

For best performance, your mobile device volume setting should be set to maximum.

All volume adjustments for the system should be controlled from the product.

The unit will recall the last volume setting on your mobile device every time Bluetooth connection is made.

### Formats

Playback is supported from the mobile device with any format it can play.

Audio will only be played by the product.

Video cannot be viewed on the unit.

### Switching Media

**Touch** 

Available sources will display **(Bluetooth and USB)**

### (i) Note

USB source will only be displayed if a USB drive is inserted and has playable media.

### Display

Track info will be displayed when available.

Track, Album and Artist.

Album art is not supported via Bluetooth playback.

# Media

## USB/Micro SD Playback

**Touch**

The music will play automatically.

## Audio Control

1. Play/Pause ▷ ||

2. Track Fwd / Rev ◁ ▷|

3. Repeat ALL

4. Repeat One

5. Random ⤬

## (i) Note

If there are other files in the USB/Micro SD card, music files will play first.

## Video Control

1. Play/Pause ▷ ||

2. Track Forward/Backward ◁ ▷|

3. Repeat All

4. Repeat one

5. SETUP

## Photo Control

1. Play/Pause ▷ ||

2. Track Forward/Backward ◁ ▷|

3. Repeat All

4. Repeat One

5. Rotate

## Navigating Menu

**Touch** | Music | Video | Image | Return

To browse contents, **Swipe**

To return to the current file playing,

**Touch** .ıll Playing

## ⚠ WARNING

Watching videos or photos while driving is against Federal, State, and Local laws.

Do not use features of this product if it cannot be operated safely and legally in your location.

## (i) Note

Review the connections of this product, to properly integrate the parking brake wire to the vehicle.

Video and or photos cannot be viewed while driving. The vehicle must be stationary and the parking brake applied to enable viewing.

# Radio

## AM/ FM

### Controls

Touch  Tuner

### Tuning

To search for stations:

**Search**

Touch and Hold ◁ ▷

**Manual Seek**

Touch < >

**Auto Search & Store: Touch** 🔍

---

[Screen display]

🏠                    10:30ᴬᴹ

Mono          MHz          DX

◁   <   **87.50**   >   ▷

☆

≡   FM   ⓞⓄ   ((ŧ))   ⚙   🔍

Station Listings → 
Bands →
Stereo/Mono →
LOC/DX →
Settings →
Auto Search & Store →

### Band & Settings

**Touch** FM to switch bands

To change radio settings

**Touch** ⚙

### Favorites and Presets

Settings Favorites

**Touch** ☆

**Favorite Set** ⭐

---

To remove a favorite, **Touch** ⭐

### Browsing Favorites

**Touch** 87.50

To return the Tuner screen **Touch** 87.50

### Changing Presets

**Touch** ◁ ▷

To list all Stored Stations

**Touch** ≡

### Stereo/Mono

To turn on/off stereo when receiving a stereo signal,

**Touch** ⓞⓄ

### LOC/DX

To select Local or Distant broadcasting stations,

**Touch** ((ŧ))

### Playback

**Touch** [AV In]
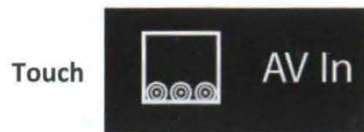
Media must be controlled from the external device.

Track functions are not controlled from the product.

### (i) Note

To adjust the volume level properly, the carry-in device volume should be set between 50 % - 75%. The volume level should remain at that level for the remainder of the time it is connected to the product.

### ⚠ WARNING

Never rely solely on the rear view camera; always check your surroundings before proceeding.

### Images may appear reversed

Do not use features of this product if it cannot be operated safely and legally in your location.

### Rear View

The rear view camera can be displayed on demand.

**Touch** [Camera]

If the user opens the SETTINGS interface and turn on both FRONT CAMERA and REAR CAMERA functions, you can choose REAR CAMERA and FRONT CAMERA casually.

[REAR CAMERA] [FRONT CAMERA]

To return to the Home screen

**Touch** ⌂

### Reverse View

When the vehicle is put into reverse gear, the camera will display the image on the screen.

**CHECK SURROUNDINGS BEFORE PROCEEDING**

### Rear View Delay

Due to varying vehicle configurations, the rear view trigger can be delayed to best suit the vehicle.

Default setting: *0 Sec* Delay

### (i) Note

The rear view camera will still function normally, if the product is in standby mode.

# Settings

## General

### System Language

**Touch** to change

**English** (Default), Spanish

### (i) Note

CarPlay is independent of the system language setting.

### Time Zone

Adjust to correctly display time

Default Setting: **(GMT-08:00) Pacific Time (US&Canada)**

### Date & Time

**24H Mode**

OFF ➡ ON

### Auto Adjust Daylight Saving

OFF ➡ ON

### (i) Note

If using an CarPlay, the iPhone will automatically set date & time. Time Zone needs to be adjusted manually.

### System Tone

Touch OFF ➡ ON

### Power Off Delay

Some vehicles during crank to start will interrupt the accessory power.

If the product re-boots during crank to start, Turn **ON** delay

The delay can select 1, 2 or 3 sec.

Default Setting: **OFF**

### (i) Note

Power Off Delay **ON** will also delay when the vehicle is turned OFF.

This might affect hands-free functionality during a call.

### Factory Settings

To restore settings to default:

Touch

### ⚠ CAUTION

Will restore all settings to factory defaults.

All settings and presets will be lost.

24

# Settings

## Audio

### EQ

To access the EQ menu

Touch 
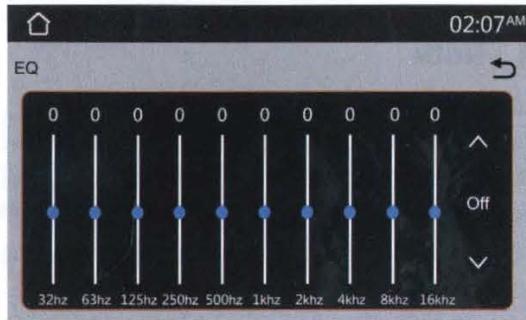


(i) **Note**

The EQ can also be directly accessed while changing the volume. The volume display will show the EQ icon, you can touch to access the Audio Settings.
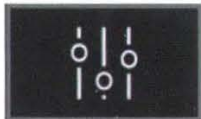


### Preset EQ

Jazz, HipHop, Pop, Rock, R&B

### Balance/Fader

Left/Right Balance, **Touch** 
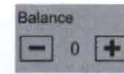
**Swipe** for quick adjustment 

Front/Rear Fader, **Touch** 
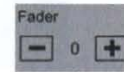
**Swipe** for quick adjustment 

### Subwoofer

The level and filter can be adjusted for the Sub pre-amp output.

Level, *1-14 dB*

Swipe 

Filter: *50 Hz, 80 Hz, 120 Hz, 160 Hz*

**Touch** +/- to select a cutoff frequency for your subwoofer.

### Loudness

Enhances and gently boosts low and high freq.

Touch 
OFF → ON

### Internal Amp

To reduce the possibility of noise entering the signal chain when utilizing the audio pre-amp outputs, the internal amp can be turned **OFF**

Touch 
ON → OFF

### Volume

Settings are for default volumes for Main (Radio, Media), Hands-free (BT Ring, BT Talking), Apple CarPlay / Android Auto (Navi, Voice).

### Source Level

The source mode (Radio, USB, Micro SD, BT Audio, AV Input, Apple CarPlay, Android Auto) gain control.

# Settings

## Display

### Illumination Control

**Touch** OFF → ON

When the vehicle lights are on, the products illumination can be customized for night use.

### Gamma
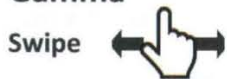
**Swipe**

Gamma can be adjusted for both day and night settings.

### Screen Brightness

**Swipe**

### UI settings

**Wall paper**

**Touch** to change

User can change the background picture by inserting a USB with photos.

**Background Brightness**

**Swipe**

### Connection

**Touch** ON → OFF

Power On/Off Bluetooth

Default Setting: **ON**

### Auto Connect

**Touch** ON → OFF

Auto connects to the device when the product is powered ON

Default Setting: **ON**

## Bluetooth

### Auto Answer

**Touch** OFF → ON

Auto answers when there is an incoming call.

Default Setting: **OFF**

### (i) Note

Bluetooth will turn **OFF** automatically when CarPlay or Android Auto is connected. If other devices are connected via Bluetooth, they will be disconnected for CarPlay/Android connection.

To enable Bluetooth connection, on the home screen, go to **Handsfree > Device** then tap ≯. For wired CarPlay or Android Auto connection, unplug the connection cable for use of Bluetooth connection.

# Settings

## Bluetooth

### Device Name

**BOSS AUDIO BE920WCPA**

### Rear Camera Input

Turn on if you have a rear view camera, turn off if you have not.

### Front Camera Input

Turn on if you have a front view camera, turn off if you have not.

### Parking Assist Guide

Turn off if your rear view camera have parking assist guide, turn on if you have not.

## Camera

### Parking Assist Guide Adjust

If your rear view camera does not have parking guide lines, turn on the parking guide lines built in this unit and adjust the guide lines if found necessary.
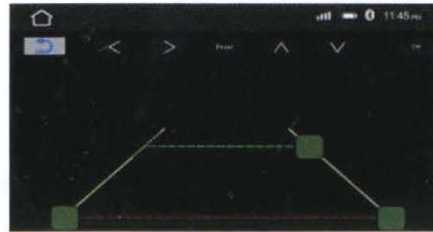


Touch and drag a square icon to reposition the related guide line. Repeatedly touch an arrow icon to fine tune positioning of the related guide line. Touch the OK icon to confirm the adjustment. To reset to the default positioning of the guide lines, touch the Reset icon.

## Radio

### Rear View Delay

0 Sec (Default), 0.1 Sec, 0.5 Sec, 1 Sec, 2 Sec
When switching from Park to Drive, or vice versa, the camera should not trigger on the display.
Sensitivity should be adjusted to trigger only on reverse gear selector.

### Region

Touch 👆

Default Setting: **USA 2**

US Tuner Spacing: FM (200 KHz), AM (10 KHz)

European Spacing: FM (50 KHz), AM (9 KHz)

# Connections

## Power/SWC

### ⚠ CAUTION

It is recommended to have the product installed by a certified installation professional.

### ⚠ CAUTION

Before installation, or wiring connections, disconnect the negative (-) battery terminal to prevent damage to the product, and/or possible injury.
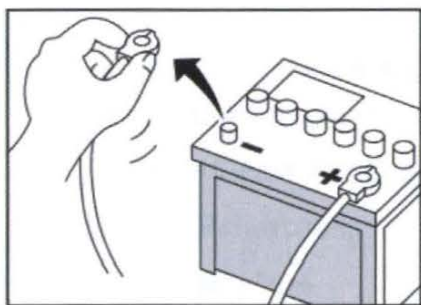
### ⚠ CAUTION

Remote Out is 500 mA max output rating. If several amplifiers are to be used, it is recommended to use a relay for the Remote Out trigger.

**Red/White**, Rear Camera Power (+12V, 500 mA)

**Red/Violet**, Front Camera Power (+12V, 500 mA)

**SWC Input**

**Orange**, Illumination Input (+12V)

**Red**, Accessory (+12V)

**Black**, Ground (-)

**Yellow**, Constant (+12V)

**Violet/White**, Reverse Signal Input (+12V)

**Blue**, Antenna Output (+12V, 500 mA Max)

**Blue/White**, Rem. Output (+12V, 500 mA)
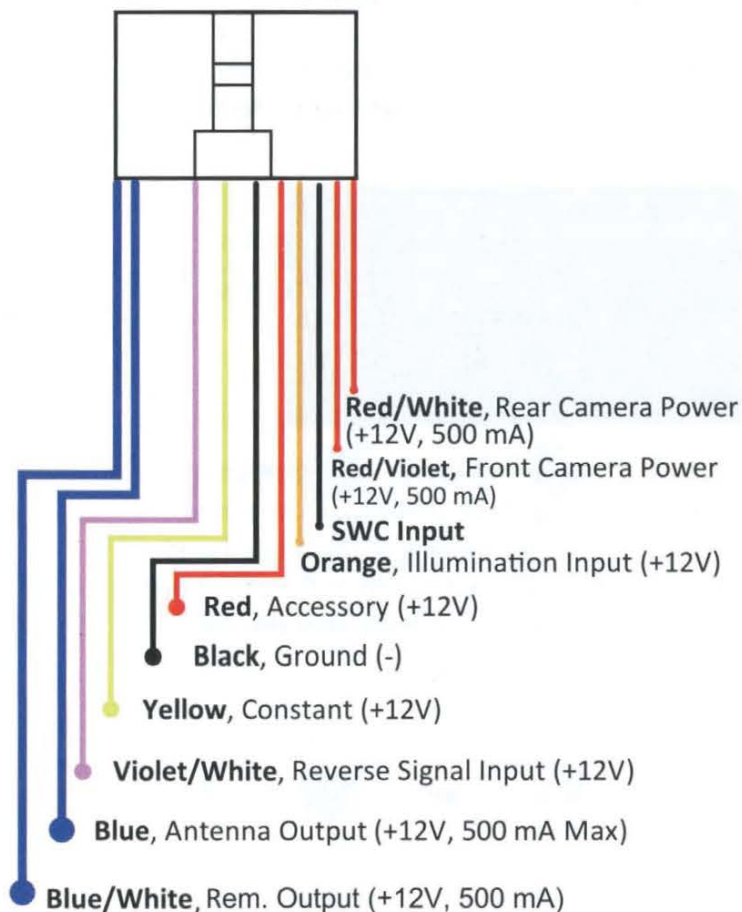
### ⓘ Note

Unused input/output wires need be insulated with tape, heat shrink, or crimp connectors. **Never use wire nuts.**
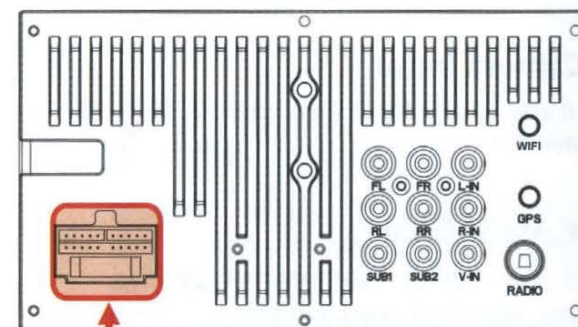
### Location to plug in

### ⓘ Note

A separate interface might be needed for your vehicle application. It is recommended that you consult with a professional installer.

### ⓘ Note

When replacing the fuse, always do so with the same type and value (**15 A**).

28

# Connections

## Speakers

### ⚠ CAUTION

Do not chassis ground any speaker wire leads.

### ⚠ CAUTION

Only use 4-8 Ω Speakers

Do not use 1-3 Ω Speakers

### ⚠ CAUTION

Do not bridge any of the channels, they are only to be wired in stereo mode.

### ⓘ Note

Unused speaker wires need be insulated with tape, heat shrink, or crimp connectors. **Never use wire nuts.**

If the speaker outputs are not used, turn **Off** the internal amp to reduce the possibility of noise entering the signal chain.

### ⓘ Note

Observe speaker polarity when making connections.

**Rear Right (Ch. 4)**

Purple (+)

Purple/Black (-)

**Rear Left (Ch. 3)**

Green (+)

Green/Black (-)

**Front Right (Ch. 2)**

Gray (+)

Gray/Black (-)

**Front Left (Ch. 1)**

White (+)

White/Black (-)

**Location to plug in**
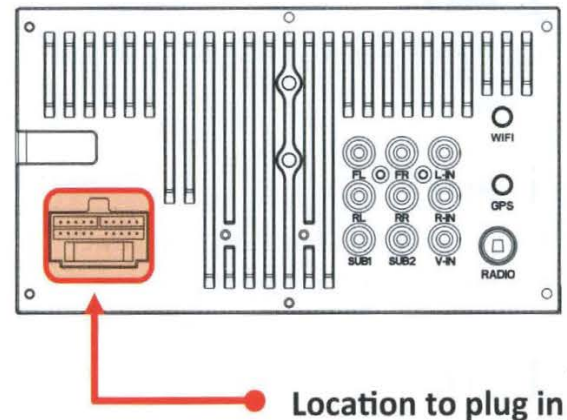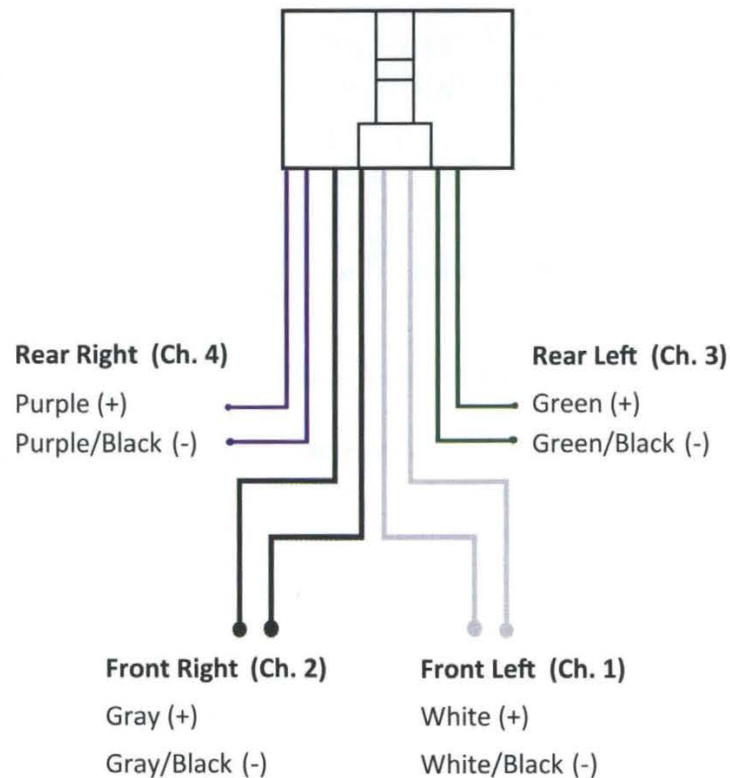
# Connections

## Audio Pre-amp/AV IN/ Radio/GPS

(i) **Note**

Subwoofer Pre-amp is a non-fading mono output.

(i) **Note**

Always run signal wires away from power cables to reduce the possibility of noise.

(i) **Note**

This product has GPS positioning function which is only used as an auxiliary function of Android Auto / CarPlay navigation.

If the following icon is displayed on the top of the screen, this indicates no or improper GPS antenna installation. Check whether the supplied GPS antenna is correctly and securely installed on the rear of the product.

NO GPS

FL    FR    L-IN

RL    RR    R-IN        GPS

SUB1  SUB2  V-IN       RADIO

Audio/video Inputs

FM/AM Antenna Jack

Pre-Amp Audio Outputs
(Front/rear speaker outputs       GPS Antenna Jack
and two subwoofer outputs)
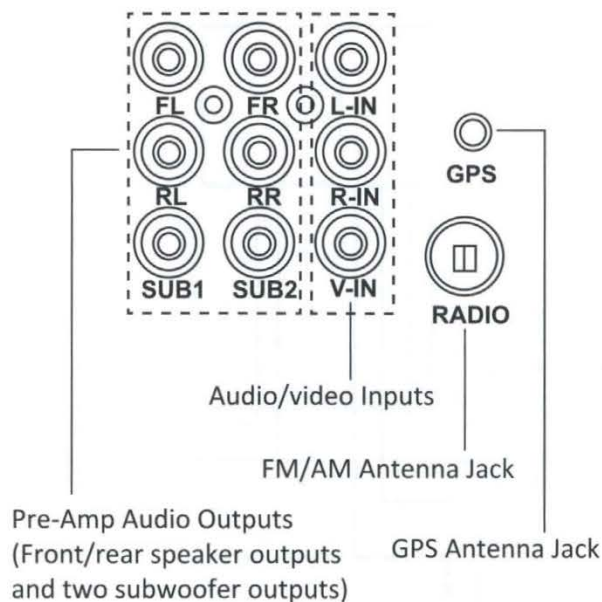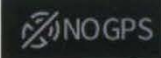
(i) **Note**

If pre-amp outputs are being used exclusively, turn **Off** the internal amp of the product, to reduce the possibility of noise entering the signal chain.

WIFI

FL  FR  L-IN
RL  RR  R-IN          GPS
SUB1 SUB2 V-IN        RADIO
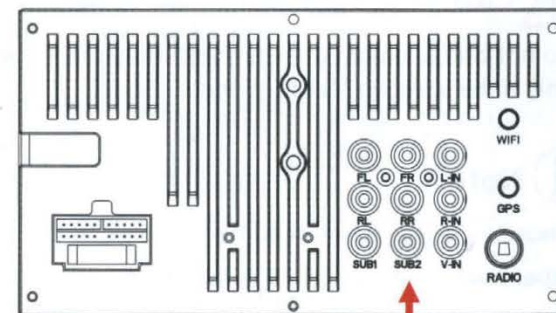
**Location to plug in**

# Connections

## Camera/USB/MIC

### ⚠ WARNING

Never rely solely on the rear view camera; always check your surroundings before proceeding.

**Images may appear reversed**

Do not use a feature of this product if it cannot be operated safely and legally in your location.



Microphone Input

Front Camera Input

Rear Camera Input

USB Play/ Charging

Apple CarPlay  Android Auto

USB2

USB1

WIFI

GPS

RADIO

FL  FR  L-IN

RL  RR  R-IN

SUB1  SUB2  V-IN
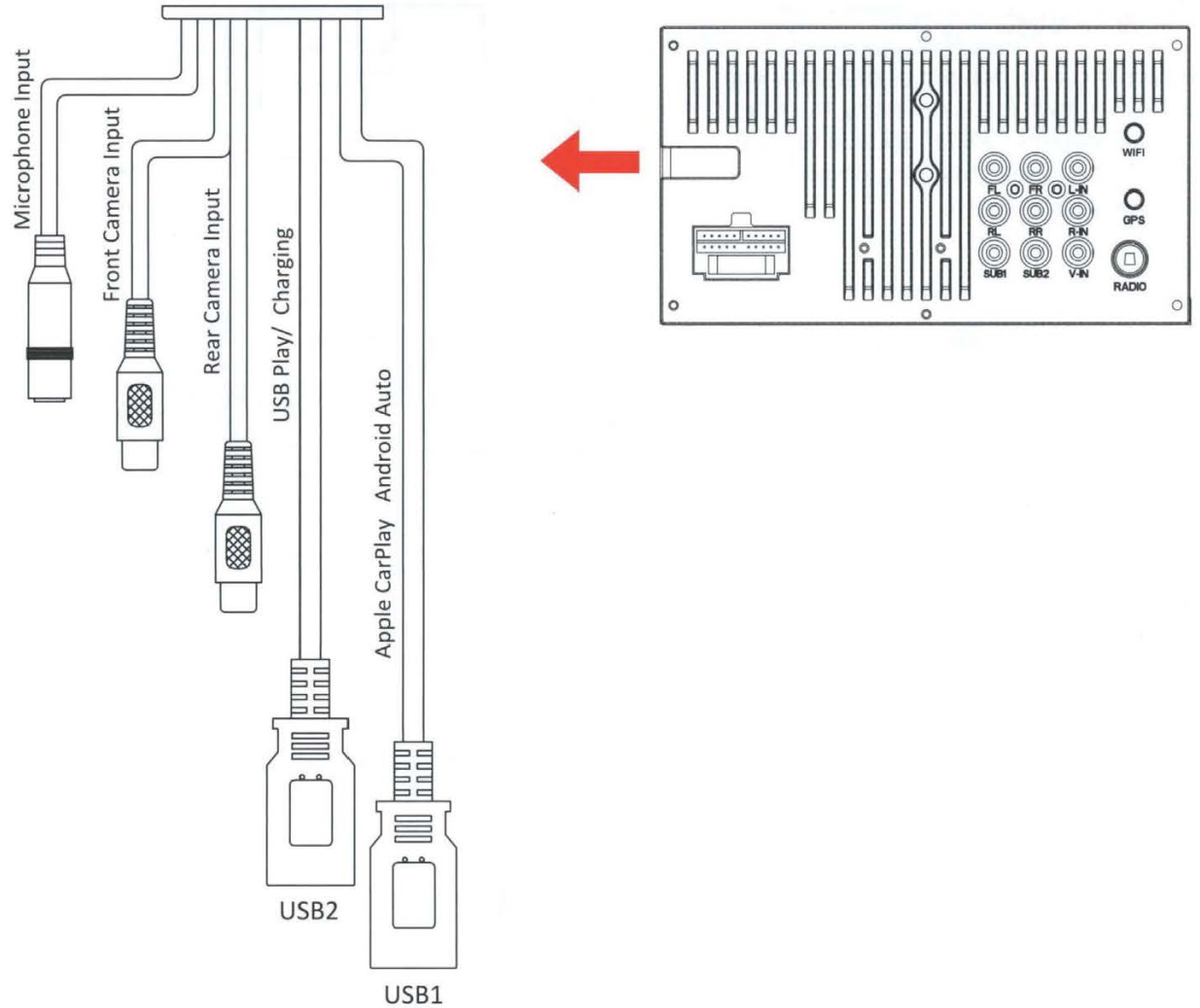
# Connections

## Parking Brake

### ⚠ WARNING

Improper connection or use of the parking brake status wire, (i.e. defeating the safety feature) violates Federal, State, and Local laws. This may lead to injury, property damage, and/or death.

### ⚠ WARNING

Watching videos or photos while driving is against Federal, State, and Local laws.

### ⓘ Note

For Android Auto setup, the parking brake status wire **MUST** be connected.

### ⓘ Note

Review the connections of this product, to properly integrate the parking brake wire to the vehicle.

Video and or photos cannot be viewed while driving. The vehicle must be stationary and the parking brake applied to enable viewing.



● **Lt. Green**, Parking Brake Input

**Power/Speaker/SWC Harness**
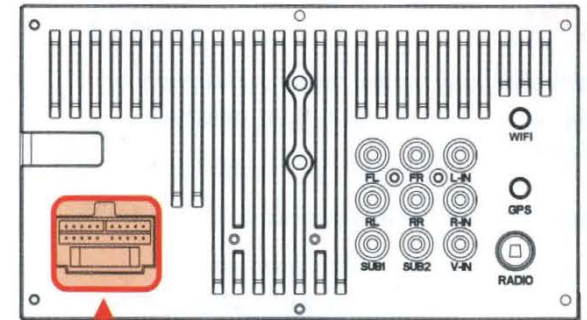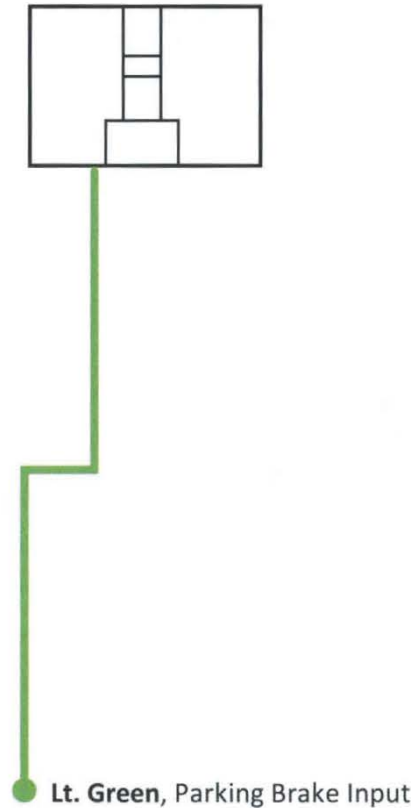
### ⓘ Note

The parking brake input needs to be connected to the parking brake wire.

### ⓘ Note

Every vehicle has a different type of parking brake connection; consult a certified professional installer.

# Connections

## Hands-free Mic

### Placement

Every vehicle will perform differently due to layout, interior materials, etc.

The **Red** shaded areas are the recommended locations for best microphone performance.

Items to look for before placement:

1. Do not place in front of air vents.

2. If the vehicle has tweeters placed on sail panels, do **NOT** locate the mic on steering column area.

3. Front of mic must not be blocked.

4. Mic should be firmly attached to mounting location.

5. Do not cover the grille openings surrounding the mic.

6. To avoid excessive wind noise, do not place near the sunroof opening

### ⚠ WARNING

Run microphone wire where it will **NOT** impede the operation of any safety items, i.e. Airbags, Knee Airbags, etc.
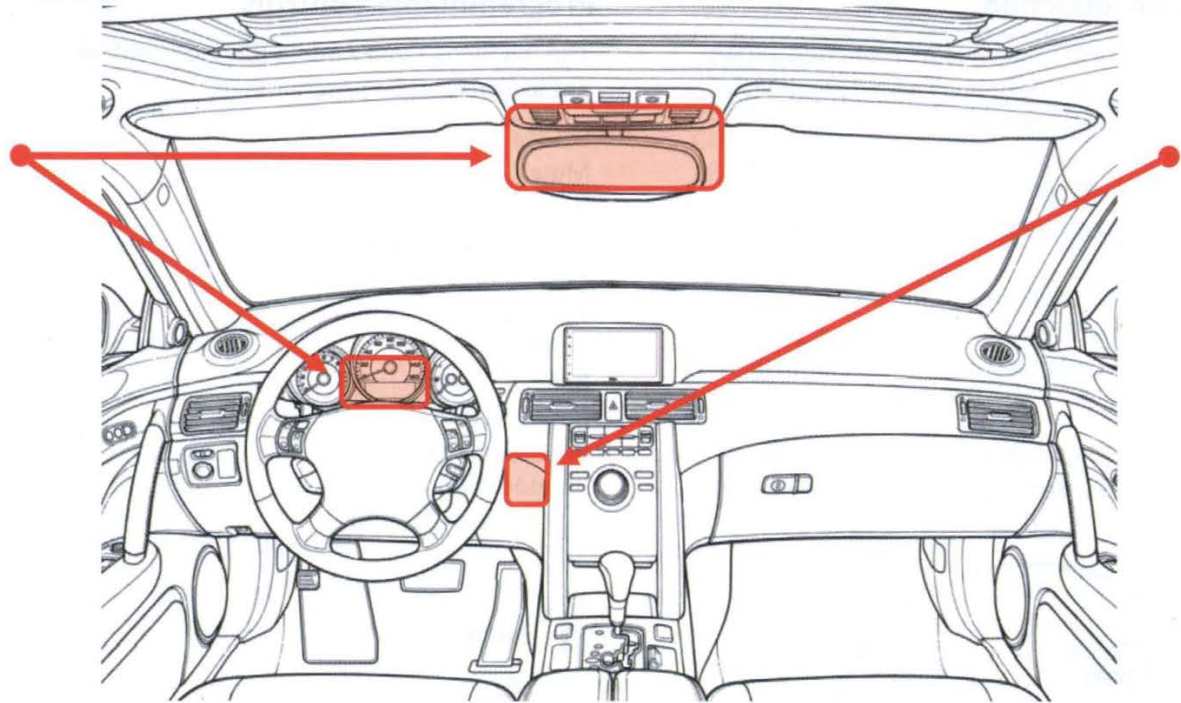
# Steering Wheel Control Compatibility

## SWC Introduction

Steering Wheel Control (SWC) function allows you to operate this unit via an external device (steering wheel control).

A third-party adapter must be used in order for this unit to be compatible with your OEM steering wheel controls. We recommend PAC SWC series.

This unit has a built-in 3.5mm SWC interface that is compatible with many popular 3rd party SWC control modules, such as PAC, METRA, and others.

3.5mm SWC input (black socket) is located on the supplied wire harness which is connected to the rear of the unit.
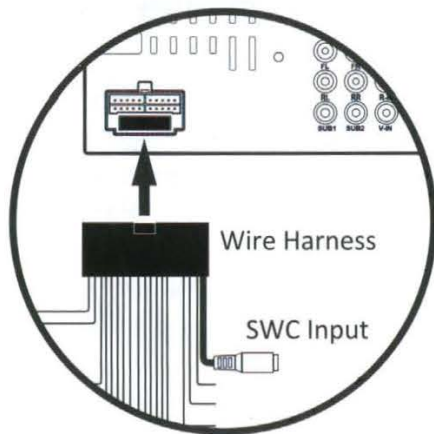


Illustration for reference only

## Programmable Controls

The following radio / audio function controls are available to be programmed.

Source
Mute
Home
Seek + / Next Track
Seek - / Previous Track
Volume +
Volume -
Band
Phone Menu
Bluetooth Talk
Bluetooth End Call
Voice Assistant / PTT

### (i) Note

Not all OEM steering wheel functions may be supported.

Specifications are subject to change without notice.

## SWC Installation / Programming

Contact your local installation expert for the correct SWC adapter for your specific vehicle.

1. For most SWC adapters, select program using "Pioneer/Sony/Other" mapping order as described in "Programmable Control".

2. When programming, if a function is not supported (or not desired), then the function MUST be skipped as per the SWC module instructions.

3. The SWC function MUST be programmed in the correct order as per the function mapping order instructions.

### (i) Note

For SWC programming technical assistance, call the number in your SWC instruction manual.

34

# Troubleshooting

| Issues | Cause | Solution |
|---|---|---|
| No sound | Internal amplifier is off<br>Product is muted<br>External amplifiers<br><br>Audio source | Go to Settings > Audio > Internal Amp **ON**.<br>Touch the volume.<br>Check the external amplifiers are on.<br>Check the remote output wire has voltage.<br>Change the audio source. |
| Media not supported | Media on the USB device/Micro SD card | Change the media format on the USB/Micro SD card. Or change the USB/Micro SD card. |
| Poor radio reception | Radio area<br><br>Antenna | Change the station.<br><br>Antenna output wire is not connected. Connect Antenna to product. |
| Apple CarPlay/Android Auto unable to start | Bad lightning®/USB cable<br><br>Wi-Fi or Bluetooth disabled<br><br>Wireless CarPlay/Android Auto connection disabled | Replace the cable for wired connection.<br><br>Enable Wi-Fi and Bluetooth on your phone.<br><br>Allow wireless CarPlay/Android Auto use when prompted during first time connection/pairing.<br><br>For CarPlay use, make sure CarPlay is enabled on your iPhone (**Settings** > **General** > **CarPlay** > Paired device > Open CarPlay).<br><br>Enable CarPlay/Android Auto connection (on the home screen, go to **Handsfree** > **Device** then tap the paired phone name). |
| Bluetooth streaming/phone call not possible | Bluetooth connection disabled | Make sure your mobile device is within range.<br>Enable Bluetooth on your mobile device. |

*35*

# Troubleshooting

| Issues | Cause | Solution |
|---|---|---|
| Bluetooth streaming/phone call not possible | Bluetooth connection disabled | Enable Bluetooth connection (on the home screen, go to **Handsfree** > **Device** then tap ✳). For wired CarPlay/Android Auto connection, unplug the connection cable. |
| Hands-free call quality | Mobile device | Check cellular strength on mobile device. End call and redial number. |
| | Microphone | Microphone placement needs to be relocated. Microphone needs to be firmly attached to location it's mounted on. Check to see if microphone is properly plugged in. |
| Unit is unresponsive | Processor has frozen | Restore the factory settings. Use a small pin to press the reset pinhole on the bottom of the display. |

**BOSS®**
**AUDIO SYSTEMS**

If you have questions about this product:

Customer Service

***805-751-4853***

M-F 8:30a-5:00p (PST)

*Tech Support: www.bossaudio.com/support/technical-support*

*© 2022 BOSS Audio Systems*

# Specifications

## General

Power Input...................................8.5 V—18 V DC

         Nominal...........................14.4 V DC

Current Consumption.....................................15A

Fuse Type.........................................................15A

Dimensions (H x W x D)......3.80" x 6.71" x 3.56"

Unit Weight............................................1.73 lbs.

Operational Temperature..................-4—140°F

## Display

Screen Size...........................................................7"

Aspect Ratio....................................................16:9

Resolution........................................ 1024 x 600

Screen Type.....................TFT-LED Active Matrix

## Audio

Max Power..............................................85 W x 4

Acceptable Speaker Load............................4-8 Ω

Preset EQ.................................................................5

        JAZZ, HIPHOP, POP, ROCK, R&B

EQ Bands, Adjustable........................................10

      32, 63, 125, 250Hz, 500Hz

      1KHz, 2KHz, 4KHz, 8KHz, 16KHz

EQ Boost/Cut.................................................± 6 dB

## Audio Cont'd

Pre-amp Output........................................3 Pairs

     Front...........................4V, Full-Range

     Rear.............................4V, Full-Range

     Sub (Mono)...........................4V, LPF

Sub LPF................50 Hz, 80 Hz, 120 Hz, 160 Hz

Sub Level.................................................+1-14dB

## Radio Tuner

Freq. Range.................87.5 MHz-108 MHz (FM)

Freq. Range..................522 kHz-1710 kHz (AM)

USA 1 Range (FM)....................100 kHz Spacing

USA 2 Range (FM)....................200 kHz Spacing

Europe Range (FM).....................50 kHz Spacing

## Apple CarPlay

iPhone Support....................iPhone 5 or Newer

iOS...............................................iOS 7.1 or Newer

## Android Auto

Wired...............................Android 6.0 or Newer

Wireless........................Android 11.0 or Newer

## USB/Micro SD

USB Spec............................USB 2.0 (High-Speed)

USB Port 1: CarPlay & Android Auto...............

Current Output 1.5A

USB Port 2: Media & 1.5A Charging ...............

Current Output 1.5A

USB/Micro SD card.......................... max 32GB

File System.................................................FAT32

Audio Playback............ MP3, WMA, WAV, FLAC

Video Playback........................ AVI, MKV, WMV

Picture Playback.......................JPG, PNG, BMP

\* Not all listed compressed files guaranteed to play due to different creation methods or file contents.

## Bluetooth®

Version................................................v4.2+E.D.R.

Audio Codec...................................................S.B.C.

Profiles...................................................................

HFP v1.6, A2DP v1.2, AVRCP v1.5, PBAP v1.1
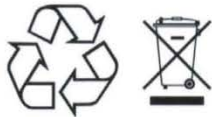
## Wi-Fi

Frequency Band.......................................5 GHz
(Only used in wireless connection for CarPlay and Android Auto)

*Specifications are subject to change without notice.*

**BOSS AUDIO SYSTEMS**
**ELITE**

BOSS Audio Systems
3451 Lunar Court · Oxnard, CA 93030
**www.bossaudio.com**
**805-751-4853 Customer Service**
Tech Support: www.bossaudio.com/support

**0822**

## SPECIFICATIONS

| | |
|---|---|
| Power Supply | **DC 12v** |
| Lens Angle (Deg.) | **170º** |
| TV System | **NTSC** |
| Video Output | **1.0vp-p, 75Ω** |
| S/N Ratio | **< 48 dB** |
| IP Rating | **IP68** |
| Operating Temp. (Deg. C) | **-30ºC ~ +70ºC (RH 95% Max.)** |
| White Balance | **Auto** |
| Minimum Illumination | **0.5 LUX** |
| AGC | **Auto** |
| Resolution (TV Lines) | **480** |
| Electronic Shutter | **1/60 (NTSC)** |
| Effective Pixels | **628 x 586** |

Above parameters can be modified without notification.

BOSS Audio Systems
3451 Lunar Court • Oxnard, CA 93030

www.bossaudio.com
800-999-1236 US Toll-free
805-751-4853 Customer Service

Tech Support: www.bossaudio.com/support/technical-support

(e1) C€ ⌧ 0618

# USER'S MANUAL
## ELPC40B

### REAR VIEW LICENSE PLATE MOUNT CAMERA
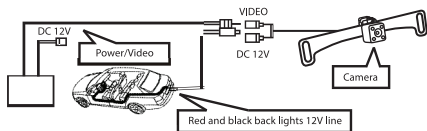FEATURING HIDDEN MOUNTING BRACKET



DO NOT FULLY RELY ON REVERSE CAMERA
WHEN BACKING UP.

ALWAYS CHECK YOUR SURROUNDINGS
BEFORE BACKING UP.

**BOSS** ®
**AUDIO SYSTEMS**
**ELITE**

## INSTALLATION

### 1. WIRE CONNECTION



Complete all required connections so that all lines are hidden in vehicle.

### 2. CAMERA INSTALLATION

Camera should be installed in the following configuration:

License Plate Frame Mount – Align camera frame with top-set of screw holes on license plate or license plate frame. Affix camera using license plate mount screws. See: (diagram 1)

Attention: The camera switch is controlled by reverse gear shift.
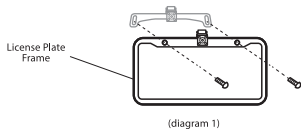


(diagram 1)

### OPTIONAL

To remove the distance guide lines:
1. Turn the system OFF before proceeding
2. Cut the white loop wire located at the connection points (camera end).
3. Insulate the wire, using tape or crimp connectors on both ends.
4. Reconnecting the wire will display the guide lines again.

To invert the camera image:
1. Turn the system OFF before proceeding
2. Cut the blue loop wire located at the connection points (camera end)
3. Insulate the wire, using tape or crimp connectors on both ends.
4. Reconnecting the wire will orient the image back to its original position.

## TROUBLESHOOTING GUIDE

The following checklist might help to solve the problems when using this unit. Please double check to ensure connection and procedure of operation is done properly before using checklist.

| PROBLEM | CAUSE/SOLUTION |
| --- | --- |
| NO IMAGE | Check that power cable is securely connected.<br>Check to ensure there is a good connection between video-in and monitor.<br>Check that REVERSE GEAR is engaged.<br>Check to ensure correct monitor setup. |
| IMAGE BLURRING | Check for water/water stain or dust on camera lens.<br>Clean camera lens |
| IMAGE SHAKING | Check to insure camera is mounted and secured tightly. |
| IMAGE SLANTED | Adjust camera mounting bracket |

**NOTE:**

If problems persist – consult nearest service dealer. DO NOT attempt to disassemble or modify unit.

# BEST WARRANTY
## IN THE INDUSTRY

**BOSS Audio Systems warrants its products purchased in the U.S. against any material or craftsmanship defects in the following categories:**

**1 Year** on Mobile Video, CD/DVD Receivers, Subwoofers, Speakers, Tweeters, ATV/UTV and Motorcycle Sound Systems from date of original purchase. Qualified purchases may receive additional two years *(3 years total)* when installed by a certified retailer. Proof of purchase is required.

**5 Year** on Amplifiers. Qualified purchases may receive additional one year *(6 years total)* when installed by a certified retailer. Proof of purchase is required.

**1 Year** on all other Electronics and Accessories. There is NO EXTENDED WARRANTY available on these items. Please visit **bossaudio.com/policies** for more information.

# Register Your Product Online

To register your product, scan this QR code with your smart device and fill in the online form. You can also find the online registration form at: www.bossaudio.com/support

**Your product may qualify for a FREE EXTENDED WARRANTY. Please see www.bossaudio.com/policies for the qualifications and details of this program.**

# THANK YOU

Welcome to the BOSS AUDIO SYSTEMS family
Proud audiophiles since 1987

1220

# GET INVOLVED

**BOSS** ®
AUDIO SYSTEMS

## WE ARE A COMMUNITY!

We read all product feedback, so please share your experience with us and with others!

## NEED SUPPORT?

Our U.S. based Customer Support Team is standing by to help you with your inquiries.

**CUSTOMER CARE: (805) 751-4853 & Live Chat**
**ONLINE SUPPORT: www.bossaudio.com/support**

## JOIN OUR COMMUNITY

Join our #BOSSInsiders Program and have an impact on product updates & releases. Apply at **www.bossinsiders.com** to test and have an influence on future products.

Stay connected with the BOSS Audio Systems community plus get tips & tricks on products and installs.

**@BOSSAudioSystems**